

1. IDENTIFICATION OF THE COURSE

MED 555- MEDICAL ETHICS

2. DESCRIPTION

The course has particular strengths in the general information on legal and ethical issues affecting physicians; the evolution of ethical issues in biomedical sciences; health in the public health, and the physicians law and ethics of Turkish Medical Association. In addition, basic themes and major works in Medical Law and Ethics are also reviewed. After an overview of the course, we will examine a number of theoretical and substantive issues in the area of the law of medicine. We will start off by considering various conceptions of health, disease, and the health sciences and their relationship to the society.

This course also includes the history of technology as well as the main branches of medical sciences. We will also consider the relationship between technology and medicine as there has been a strong interaction among them. It concentrates on the ethical issues of biomedical sciences.

Within the course, the Law and ethics of Medicine teach a range of lessons, with special emphasis on history of medicine in the Medical Ethics and Human Rights form an integral part of the medicine, the relationship between law and medical ethics and International Health.

3. LEVEL

a. Prerequisites:

None.

b. Objectives:

The first objective of the course is to familiarize students with the basic concepts and approaches within medical sciences and to help students to develop an ethically understanding of medical issues. The second objective is to help students to understand ethical issues in the medicine in the light of the theoretical framework mentioned above. This course seeks to bring ethical perspectives to bear on contemporary health issues and, to explore specific themes and issues in the medical ethics and law. The third objective is to help students to good medical practice.

c. Learning Outcomes:

We believe that this experience will be helpful for the students in earning to talent in interpreting, comparing, critiquing for the medical ethics issue in their good medical practice.

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4. COMPULSORY or ELECTIVE COURSE

This course is a compulsory course

5. TEACHING STAFF

Gülnaz Arslan, , M.D. Professor
Haldun Müderriso lu, M.D. Professor
Levent Pe kircio lu , M.D. Professor

Faik Sarıalio lu, M.D. Professor
Feride ahin, M.D. Professor
Cemalettin Topuzlu, M.D. Professor
Hulusi Zeynelo lu, M.D. Professor
Belgin Ataç, M.D. Professor
Erhan Büken, M.D. Assoc. Professor
Ertan Kahramano lu , M.D. Assoc. Professor
Gamze Özçürümez, M.D. Assoc. Professor
Rıfat Vedat Yıldırım, M.D. Assoc. Professor

6. LENGTH AND PERIOD

This course is a one week course which consists of 45 hours. Topics to be covered are as follows:

Days	Topics
1	Team Study at the Medicine
1	Ethical Boards
1	End of The Life
2	Legal Responsibilities of Doctors
2	Genetics and Ethics
2	Transplantation and Ethics
3	Sexual Functions and Reproductive Ethics
3	Ethical Approach for Patient with Psychiatric Disease
3	Ethical Approaches for Patient with Cancer
3	Biomedical Ethics and Biologic Sample Banking
4	Medicine, Methodology of Medicine, Scientific and Experimental Medicine
4	Ethics, Bioethics, Medical Ethics
4	Medical Ethics, Basic Ethical approaches and Ethic Laws
4	Patient Rights
4	Ethics Problems in the association between Medical and Technology
4	Ethics decisions in the beginning and the end of the Life
5	Discussion of Ethic Cases

7. TEACHING AND LEARNING METHODS

The course will consist of lectures, class discussions, and reading assignments.

8. ASSESSMENT

Students will be responsible from all textbooks and articles. However, some supplementary books, which are listed above, are also suggested. Students are encouraged to make extra readings. Class participation is a vital component of this course. Students are expected to attend classes regularly. At least 90 % attendance is required. Students are expected to read the assigned material in advance to be ready to participate to class discussions. Each student will be evaluated according to his/her performance during class discussions. The students will be made write an article and present it at the end of the year. They will be assested according to their performance during their presentation.

9. THE LANGUAGE:

The language of the course is Turkish.

1. IDENTIFICATION OF THE COURSE

MED 560 ANESTHESIOLOGY

2. DESCRIPTION

This course will be included a comprehensive program that emphasizes the principles of anesthesiology. Apart from the basic principles of anesthesiology, advanced management options in this era will be also covered. At the beginning of the course, a brief summary of the entire course schedule and the topics about anesthesiology will be given to the students to make them familiar with the course. The course will be constituted from lectures that are performed in the classroom and will include theoretical and practical points (such as endotracheal intubation, intravenous nasogastric, and urinary catheterizations, and preparation of intravenous fluids and drugs) about anesthesiology.

3. LEVEL

a. Prerequisites:

None.

b. Objectives:

Objective of the course is to review and familiarize students with anesthesiology practice and to teach students how to perform endotracheal intubation, intravenous, nasogastric and urinary catheterizations, and to prepare intravenous fluids and drugs. Medical students completing this course are expected to perform endotracheal intubation, intravenous, nasogastric, and urinary catheterizations.

c. Learning Outcomes:

We believe that this course will be helpful for the students in performing basic interventions in their medical practice especially in emergency cases and in CPR.

References:

- ñ Textbooks
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- Ñ Stoelting RK, Dierdorf SF. (2002) Anesthesia and Co-Existing Disease, Churchill Livingstone, Philadelphia

4. MANDATORY OR OPTIONAL COURSE

This course is a mandatory course.

5. TEACHING STAFF

Gülnaz Arslan, M.D. Professor of Anesthesiology
 Zeynep Kayhan, M.D. Professor of Anesthesiology
 Adnan Torgay, M.D. Professor of Anesthesiology
 Arash Pirat, M.D. Professor of Anesthesiology
 Pinar Zeynelo lu, M.D. Associate Professor of Anesthesiology
 Selim Candan, M.D. Assistant Professor of Anesthesiology
 Co kun Araz, M.D. Asistant Professor of Anesthesiology

6. LENGTH AND PERIOD

This course is a three weeks course consisting lectures. Topics to be covered are as follows:

1	History and Practice of Anesthesia	<i>Clinical Anesthesiology Chapter 1, Klinik Anestezi Chapter I</i>
2	Ethical issues in anesthesiology	<i>Klinik Anestezi Chapter XXXII</i>
3	Preoperative evaluation and premedication	<i>Clinical Anesthesiology Chapter 1,</i>

		<i>Klinik Anestezi Chapter II</i>
4	Anatomy and airway management	<i>Clinical Anesthesiology Chapter 5, Klinik Anestezi Chapter VIII</i>
5	Endotracheal intubation, indications, and complications	<i>Clinical Anesthesiology Chapter 5, Klinik Anestezi Chapter X</i>
6	Patient Monitors	<i>Clinical Anesthesiology Chapter 6, Klinik Anestezi Chapter III</i>
7	Volatile and intravenous anesthetics	<i>Clinical Anesthesiology Chapter 7, 8, Klinik Anestezi Chapter IV</i>
8	Neuromuscular blocking agents and neuromuscular monitorization	<i>Clinical Anesthesiology Chapter 9, Klinik Anestezi Chapter VI</i>
9	Local anesthetics	<i>Clinical Anesthesiology Chapter 14, Klinik Anestezi Chapter XX</i>
10-11	Regional anesthesia (2 hours)	<i>Clinical Anesthesiology Chapter 16, 17, Klinik Anestezi Chapter XXI</i>
12	Oxygen and oxygen therapy	<i>Clinical Anesthesiology Chapter 22, 50, Klinik Anestezi Chapter IX</i>
13	Fluid management and transfusion	<i>Clinical Anesthesiology Chapter 29, Klinik Anestezi Chapter XVIII, XIX</i>
14	Anesthesia related complications	<i>Clinical Anesthesiology Chapter 47, Klinik Anestezi Chapter XXII</i>
15	Hypothermia, hyperthermia, and controlled hypotension	<i>Clinical Anesthesiology Chapter 6, 13, 44, Klinik Anestezi Chapter XVII, XIX</i>
16	Pediatric, geriatric, obstetric and outpatient anesthesia	<i>Clinical Anesthesiology Chapter 43, 44, 45, 46, Klinik Anestezi Chapter XXIII,</i>

		<i>XIV, XVI</i>
17	Pain management	<i>Clinical Anesthesiology Chapter 18, Klinik Anestezi Chapter XXX</i>
18	CPR and advanced life support	<i>Clinical Anesthesiology Chapter 48, Klinik Anestezi Chapter XIII</i>
19	Safety, and infection in the operating rooms	<i>Clinical Anesthesiology Chapter 2, Klinik Anestezi Chapter V</i>
20	Anesthesia machine, patient controlled anesthesia pump and syringe pumps	<i>Clinical Anesthesiology Chapter 4, 18, Klinik Anestezi Chapter V,XXX</i>
21	Patient positioning and transportation	<i>Clinical Anesthesiology Chapter 47, 49, Klinik Anestezi Chapter XXII</i>
22	Case discussion	<i>Anesthesia and Co-Existing Disease</i>

7. TEACHING AND LEARNING METHODS

The course will consist of lectures.

8. ASSESSMENT

Students will be responsible from all lectures. Class participation is a vital component of this course. Students are expected to attend classes regularly. At least 80 % attendance is required. Students are expected to read the assigned material in advance to be ready to participate to class discussions. There will be an oral and a written exam that covers all topics at the end of the course.

9. LANGUAGE:

The language of the course is Turkish.

10. ECTS CREDIT ALLOCATION

5 credits.

1. IDENTIFICATION OF THE COURSE

MED 562 PEDIATRIC SURGERY

2. DESCRIPTION

“Pediatric Surgery Course” is given to the medical students of phase five. The main purpose is to introduce pediatric surgery emphasizing the daily practice. Besides, rare congenital anomalies which are corrected by a pediatric surgeon are introduced.

The course is designed on theoretical and practical basis: Lectures, seminars, case discussions and patient visits are given or moderated by teaching staff of the department. Students attend to outpatient practice and surgical operations.

The main topics of the course are:

- a. Pediatric Gastrointestinal Surgery
- b. Pediatric Hepatobiliary Surgery
- c. Pediatric Thoracic Surgery
- d. Pediatric Genitourinary Surgery
- e. Pediatric Endocrine Surgery
- f. Pediatric Oncologic Surgery
- g. Pediatric Trauma

3. LEVEL

a. Prerequisites:

Having completed Phase IV successfully at medical faculty and having completed the general surgery clerkship successfully.

b. Objectives:

The first objective of the course is to familiarize students with the basic concepts and nomenclature in pediatric surgery. The second objective is to convey the basic diagnostic and treatment principles of the diseases in the field of pediatric surgery.

c. Learning Outcomes:

At the end of this course, the students are expected to be able to do the following:

- ñ Know brief history, contents and legal responsibilities of Pediatric Surgery.
- ñ Have the basic information and planning capability on fluid – electrolyte therapy and total parenteral nutrition
- ñ Decide the diagnostic tools to be used according to physical examination findings of a case presenting with congenital gastrointestinal system complaints and evaluate their results.
- ñ Have enough information about; esophageal atresia, gastric volvulus, pyloric atresia, hypertrophic pyloric stenosis, duodenal atresia, annular pancreas, jejuno-ileal atresia, meconium ileus, meconium plug syndrome, necrotizing enterocolitis, intestinal duplication and colonic atresia; in differential diagnosis of gastrointestinal system atresia.
- ñ Know emergent interventional necessities, diagnostic procedures and transportation precautions for patients admitting with gastrointestinal obstruction.
- ñ Know clinical presentation, diagnostic procedures and treatment of congenital aganglionic megacolon and anorectal malformations.
- ñ Have enough information about hemorrhagic disease of newborn, swollen maternal blood, necrotizing enterocolitis, meckel diverticulum, intussusception, anal fissure and gastrointestinal polyps in differential diagnosis of pediatric distal gastrointestinal bleeding.
- ñ Be capable of history taking, physical examination, diagnostic management, differential diagnosis for a child with distal gastrointestinal bleeding; performing basic emergent interventions; directing the patient for proper (further) treatment.

- ñ Have enough information about infectious, metabolic and genetic diseases in differential diagnosis of pediatric biliary anomalies; know diagnostic and therapeutic management of biliary atresia and choledocal cyst.
- ñ Learn about surgical interventions to pediatric hepatobiliary anomalies.
- ñ Decide the diagnostic tools to be used according to physical examination findings of a case presenting with congenital respiratory complaints and evaluate their results.
- ñ Have enough information on congenital lobar emphysema, congenital cystic adenomatoid malformation, bronchogenic cyst, pulmonary sequestration, congenital diaphragmatic hernia, diaphragmatic eventration, pneumothorax, pulmonary abscess, empyema and intrathoracic tumors for differential diagnosis.
- ñ Know emergent interventional necessities, diagnostic procedures and transportation precautions for patients admitting with respiratory distress.
- ñ Decide the diagnostic tools to be used according to history and physical examination findings of a case presenting with neonatal and pediatric urinary anomalies and evaluate their results.
- ñ Plan or give directions for treatment of cases with hydronephrosis, polycystic kidney, urteropelvic junction obstruction, ureterovesical junction anomalies, vesicoureteral refflux, posterior urethral valve, epispadias, hypospadias, extrophia vesica.
- ñ Know embryological basis of intersex anomalies and their findings, diagnosis and treatment options.
- ñ Have enough information on thoracic wall anomalies, particularly pectus excavatum and pectus carinatum diagnosis and treatment.
- ñ Diagnose abdominal wall defects as omphalocele, gastroschisis and umbilical anomalies and direct their treatment.
- ñ Have enough information about frequent solid tumors of childhood as neuroblastoma, Wilms' tumor, hepatoblastoma, teratoma and rhabdomyosarcoma.
- ñ Have information on head and neck anomalies and differentially diagnose muscular torticollis, thyroglossal canal cyst, branchial anomalies, lymphangioma and lymphadenopaties.
- ñ Do differential diagnostic evaluation of acute abdomen and intervene properly. Be well-informed on acute appendicitis.
- ñ Know diagnostic and therapeutic management of acute scrotum. Have enough information on testicular torsion.
- ñ Be able to take emergency precautions and apply emergency interventions on pediatric foreign body aspiration, foreign body ingestion, corosive substance ingestion cases.
- ñ Know general management of pediatric trauma and emergency precautions. Evaluate the traumatized child in emergency service and manage with proper diagnostic procedures.
- ñ Give brief information to parents about the diseases and their prognosis.
- ñ Decide the right center for further treatment of the child and transport.

REFERENCES:

- Can Ba aklar. Bebek ve Çocukların; Cerrahi ve Ürolojik Hastalıkları, 2006, Palme Yayıncılık
- O'Neill JA, Grosfeld JL, Fonkalsrud EW, Coran AC. Pediatric Surgery, Sixth Edition, 2006, Mosby
- Ashcraft KW, Murphy JP, Holcomb III GW. Pediatric Surgery, 2004, Fourth edition, Elsevier
- Puri P, Höllwarth M. Pediatric Surgery Diagnosis and Management, 2009, Springer
- Hutson JM, et al. Jones' Clinical Paediatric Surgery: Diagnosis and Management, Sixth Edition, 2008, Blackwell Publishing
- Rowe MI, O'Neill JA, Grosfeld JL, Fonkalsrud EW, Coran AC. Essentials of Pediatric Surgery, 1995
- Docimo SG, Canning AD, Khoury AE. The Kelalis–King–Belman Textbook of Clinical Pediatric Urology, 2007, Fifth edition, Informa Healthcare UK Ltd

- Gearhart JP, Rink RC, Mouriquand DE. Pediatric Urology, 2003
- Ziegler MM, Azizkhan RG, Weber TS: Operative Pediatric Surgery, 2003, the McGraw-Hill Companies
- Moore KL, Persaud TVN. The Developing Human- Clinically Oriented Embryology, 1998, Sixth edition
- Carachi R, Grosfeld JL, Azmy A. The Surgery of the Childhood Tumors, 2008, Second edition, Springer
- Katkı Pediatri Dergisi, Çocuk Cerrahisi I-II, 2004, Cilt: 26, Sayı: 4-5
- Printed lecture notes

4. MANDATORY / OPTIONAL

Pediatric Surgery course is a mandatory course

5. TEACHING STAFF

brahim ÖTGÜN, M.D. Associate Professor of Pediatric Surgery
 Akgün H ÇSÖNMEZ, M.D. Professor of Pediatric Surgery
 Selçuk Yücesan, M.D. Professor of Pediatric Surgery
 Pelin O uzkurt, M.D. Professor of Pediatric Surgery
 Abdülkerim Temiz, M.D. Assistant Professor of Pediatric Surgery
 Semire Serin Ezer, M.D. Assistant Professor of Pediatric Surgery
 Tu ba Acer, M.D. Assistant Professor of Pediatric Surgery
 Emine nce, M.D. Assistant Professor of Pediatric Surgery

6. PROPERTIES OF THE COURSE

This is a 2-week-long course, composed of theoretical and practical lectures, seminars, case presentations, attendance to outpatient, clinical and operative applications.

Theoretical lectures*:

Lecture 1	Introduction to Pediatric Surgery
Lecture 2	Fluid and Electrolyte Treatment in Pediatric Surgical Patients
Lecture 3	Fluid and Electrolyte Treatment in Pediatric Surgical Patients
Lecture 4	Inguino-scrotal Pathologies in Children
Lecture 5	Inguino-scrotal Pathologies in Children
Lecture 6	Gastrointestinal System Anomalies – 1
Lecture 7	Gastrointestinal System Anomalies – 2
Lecture 8	Gastrointestinal System Anomalies – 3
Lecture 9	Gastrointestinal System Anomalies – 4
Lecture 10	Genitourinary System Anomalies – 1
Lecture 11	Genitourinary System Anomalies – 2
Lecture 12	Genitourinary System Anomalies – 3
Lecture 13	Genitourinary System Anomalies – 4
Lecture 14	Head and neck anomalies and masses
Lecture 15	Head and neck anomalies and masses
Lecture 16	Respiratory System Anomalies

Lecture 17	Respiratory System Anomalies
Lecture 18	Childhood Hepatobiliary anomalies
Lecture 19	Childhood Hepatobiliary anomalies
Lecture 20	Abdominal Wall Anomalies
Lecture 21	Thoracic Wall Anomalies
Lecture 22	Ethics in Pediatric Surgery, Medicine From past to present
Lecture 23	Childhood Solid Tumors
Lecture 24	Childhood Solid Tumors
Lecture 25	General management of pediatric trauma
Lecture 26	Foreign body ingestion and aspiration
Lecture 27	Acute abdomen
Lecture 28	Acute scrotum

*50 minutes each

7. TEACHING AND LEARNING METHODS

The course consists of lectures, seminars, case discussions, patient visits, outpatient practice and attendance to the surgical operations. In the first week period, lectures based on major anomalies and surgical problems are given by the teaching staff. In the second week period, seminars (including interesting and rare anomalies/pediatric surgical problems) prepared by the students are presented. Patients on the ward are discussed under the moderation of a staff surgeon. Students may participate into the operation team in scheduled cases.

8. ASSESSMENT

Written and oral examination.

9. LANGUAGE:

The language of the course is Turkish

1. IDENTIFICATION OF THE COURSE

MED 576 - INTRODUCTION TO GENERAL SURGERY

2. DESCRIPTION

This course reviews basic subjects in general surgery. After a brief overview of the course, the course deals with surgical principles as well as trauma and surgical implications of systemic diseases. The subjects are introduction to general surgery.

Additionally one week of training is allocated for Plastic and Reconstructive surgery. After a brief overview, the course deals with the repair of congenital, developmental or acquired deformities and the correction of functional deficits mainly concerning; correction of cleft lip/palate, craniofacial anomalies, hand anomalies; ablation of tumors of the head & neck and skin; reconstruction of the face, trunk, extremities and genital defects and a brief overview on highlights of body aesthetic surgery

3. LEVEL

a. Prerequisites:

None.

b. Objectives:

The first objective of the course is to familiarize students with the basic concepts and nomenclature in surgery. The second objective is to help students to learn how to search for more information in literature.

c. Learning Outcomes:

We believe that the general surgery course will help the students to know the basic surgical problems and solutions, nomenclature. In simple cases, the students will know how to treat the patient and in complicated situations, where to consult the patient.

References:

Textbooks

- Schwartz SI, Shires TG, Spencer FC, Daly JM, Fischer JE, Galloway AC. Principles of Surgery. 1999, McGraw-Hill, USA.
- Townsend CM, Harris JW. Sabiston Textbook of Surgery. 2001, 17th ed. WB Saunders Comp, USA.
- Wilmore DW, Cheung LY, Harken AH, Holcroft JW, Meakins JL, Soper NJ. American College of Surgeons ACS Surgery Principles and Practice. 2002, WebMD Corp., USA.
- Plastic Surgery. Eds: Grabb and Smith. Williams and Wilkins, 1997.
- Georgiade Plastic, Maxillofacial and Reconstructive Surgery. Third Edition. Eds: Georgiade, Riefkohl, Levin. Williams and Wilkins, 1992.

4. MANDATORY OR OPTIONAL COURSES

This course is a mandatory course.

5. TEACHING STAFF

Gökhan Moray, M.D. Professor of General Surgery
Cemalettin Topuzlu, M.D. Professor of General Surgery
Alp Demira M.D. Professor of General Surgery
Hüseyin Gülay, M.D. Professor of General Surgery
Sedat Yıldırım, M.D. Professor of General Surgery
Esat Hersek, M.D. Professor of General Surgery
Akın Tarım, M.D. Associate Professor of General Surgery

Kenan Çalı kan, M.D. Associate Professor of General Surgery
 Ali Ezer, M.D. Associate Professor of General Surgery
 Yahya Ekici, M.D. Associate Professor of General Surgery
 Feza Karakayalı, M.D. Associate Professor of General Surgery
 Tamer Çolako lu, M.D. Associate Professor of General Surgery
 Tarık Nursal , M.D. Associate Professor of General Surgery
 Erdal Karagülle, M.D. Associate Professor of General Surgery
 Nejdət Özçay, M.D. Associate Professor of General Surgery
 Nurkan Törer, M.D. Associate Professor of General Surgery
 Cem Aydo an, M.D., Assistant Professor of General Surgery
 Alper Parlakgümü , M.D, Assistant Professor of General Surgery
 Emin Türk, M.D, Assistant Professor of General Surgery
 Tugbahan Yılmaz, M.D, Assistant Professor of General Surgery
 Zülfikar Karabulut, M.D, Assistant Professor of General Surgery
 Aydın Aktur, M.D, Lecturer
 Tugan Tezcaner, M.D, Lecturer

6. LENGTH AND PERIOD

This course is an eight weeks course, which consists of 66 hours. Topics to be covered are as follows:

Hours	Topics
1-2	Fluid and electrolyte treatment in surgical patients
3-4	Peritonitis and intraabdominal infections
5-6	Symptoms and signs of gastrointestinal diseases
7-8	Liver abscess and hydatid cyst
9-10	Abdominal wall hernia
11-12	Intestinal obstruction
13-14	Obstructive jaundice
15	Wound care and wound healing
16	Surgical treatment of peptic ulcer disease
17-18	Shock
19	Transplantation
20-21	Blunt and penetrant abdominal trauma
22	Diseases of mesentery and retroperitoneum
23-24	Burn
25-26	Breast: Benign and malign diseases
27-28	Colon and rectum: Benign and malign diseases
29-30	Anus: Benign and malign diseases
31-32	Biliary tractus and gall bladder diseases
33-34	Thyroid and parathyroid: Benign and malign diseases
35-36	Surgical infections
37-38	Acute abdomen
39-40	Surgical approach to trauma patients
41-42	Stings and bites
43	Haemostasis and blood transfusions
44	Pancreatitis
45	Diseases of abdominal wall and omentum
46-47	Systemic response to trauma
48	Physiologic monitorization
49	Inflammatory bowel diseases
50-51	Esophagus: Benign and malign diseases
52-53	Small bowel: Benign and malign diseases

54	Appendix: Benign and malign diseases
55	Disease that require Splenectomy
56-57	Malign pancreatic diseases
58-59	Surgical nutrition
60	Gastrointestinal bleeding
61	Adrenal gland: Benign and malign diseases
62	Portal hypertension
63-64	Liver: Benign and malign diseases
65-66	Stomach: Benign and malign diseases
Plstc 1	Wound healing and Basic Principles in Plastic Reconstructive and Aesthetic Surgery
Plstc 2	Skin Grafts, Principles and Physiology of Skin, Muscle and Musculocutaneous Flaps
Plstc 3	Thermal Burns, Electrical Injuries and Cold Injuries
Plstc 4	Reconstruction of Maxillofacial Injuries and Fractures
Plstc 5	Surgery of Cleft Lip and Palate; Main Concerns and Outcomes
Plstc 6	Principles of Craniofacial surgery

7. TEACHING AND LEARNING METHODS

The course will consist of lectures and class discussions.

8. ASSESSMENT

Students will be responsible from all lectures. Class participation is a vital component of this course. Students are expected to attend classes regularly. At least 90 % attendance is required. Students are expected to read the assigned material in advance to be ready to participate to class discussions.

There will be a final exam. The final exam will cover all topics.

9. LANGUAGE:

The language of the course is Turkish.

1. IDENTIFICATION OF THE COURSE

MED 578 THORACIC AND CARDIOVASCULAR SURGERY

2. DESCRIPTION

This course is based on a program that emphasizes the basic principles of Thoracic and Cardiovascular Surgery. At the beginning of the course the printed handouts of the program will be given to the students and the program is going to be outlined. The course consists of lectures, clinical applications and observations.

3. LEVEL

- a. **Prerequisites:** None
- b. **Objectives:** The objective of the course is to teach the students the surgical treatment methods of Thoracic and Cardiovascular Surgery, basic surgical principles and diagnostic approach to these patients. The students will be given the opportunity to observe the operations and the postoperative care. Simple procedures necessary for the management of these patients preoperatively and postoperatively will be demonstrated.
- c. **Learning outcomes:** At the end of the course the students should be familiar with thoracic and cardiovascular surgical nomenclature and also with diagnosis and treatment of the common diseases the management They should be able to diagnose such diseases and direct the patients to units where they can be treated.

References:

Textbooks.

- Shields TW. General Thoracic Surgery 5th ed. Williams and Wilkins, 2000
- Edmunds LH. Cardiac Surgery in the Adults. 2nd ed. Mc Graw Hill Co. 2003
- Baumgartner FJ. Cardiothoracic Surgery. Landes Bioscience, 2000
- Kirklin JW, Barrat - Boyes BG. Cardiac Surgery. 3rd ed. WB Saunders, 2003
- Haimovici H. Vascular Surgery. 5th ed. Blackwell, 2004
- Rutherford RB. Vascular Surgery. 6th ed. Saunders, 2006

4. MANDATORY OF OPPTIONAL

This is a mandatory course

5. TEACHING STAFF

Sait A İamacı, M.D. Professor of Thoracic and Cardiovascular Surgery

Ahmet Hatipo lu, M.D. Professor of Thoracic and Cardiovascular Surgery

Atilla Sezgin, M.D. Professor of Thoracic and Cardiovascular Surgery

Bahadır Gültekin, M.D. Associate Professor of Thoracic and Cardiovascular Surgery

Tankut Akay, M.D. Associate Professor of Thoracic and Cardiovascular Surgery

Dalokay Kılıç, M.D. Associate Professor of Thoracic and Cardiovascular Surgery

Murat Özkan, M.D, Assist. Professor of Thoracic and Cardiovascular Surgery

6. PERIOD

This is a 2 week course. The topics that will be discussed are as follows:

1	Asepsis – Antisepsis	Shields TW. General Thoracic Surgery 5th ed. Williams and Wilkins, 2000
2	Surgical Approach in Coronary Artery Disease	Edmunds LH. Cardiac Surgery in the Adults. 2 nd ed. Mc Graw Hill Co. 2003
3	Surgery in Pulmonary Infections	Baumgartner FJ. Cardiothoracic Surgery. Landes Bioscience, 2000
4	Pleural Diseases	Baumgartner FJ. Cardiothoracic Surgery. Landes Bioscience, 2000
5	Lung Cancer	Baumgartner FJ. Cardiothoracic Surgery. Landes Bioscience, 2000
6	Congenital Heart Diseases	Kirklin JW, Barrat - Boyes BG. Cardiac Surgery. 3rd ed. WB Saunders, 2003
7	Diseases of the Mediastinum	Baumgartner FJ. Cardiothoracic Surgery. Landes Bioscience, 2000
8	Thoracic Outlet Syndrome	Baumgartner FJ. Cardiothoracic Surgery. Landes Bioscience, 2000
9	Thoracic Trauma	Baumgartner FJ. Cardiothoracic Surgery. Landes Bioscience, 2000
10	Cardiac Transplantation	Kirklin JW, Barrat - Boyes BG. Cardiac Surgery. 3rd ed. WB Saunders, 2003
11	Aortic Aneurysms	Haimovici H. Vascular Surgery. 5th ed. Blackwell, 2004 Rutherford RB. Vascular Surgery. 6 th ed. Saunders, 2006
12	Periferal Artery Disease	Haimovici H. Vascular Surgery. 5th ed. Blackwell, 2004 Rutherford RB. Vascular Surgery. 6 th ed. Saunders, 2006
13	Surgery of Valvular Heart Disease	Edmunds LH. Cardiac Surgery in the Adults. 2 nd ed. Mc Graw Hill Co. 2003
14	Perikardial Diseases	Edmunds LH. Cardiac Surgery in the Adults. 2 nd ed. Mc Graw Hill Co. 2003
15	Vasospastic Diseases	Haimovici H. Vascular Surgery. 5th ed. Blackwell, 2004 Rutherford RB. Vascular Surgery. 6 th ed. Saunders, 2006
16	Diseases of the Lymphatic System	Haimovici H. Vascular Surgery. 5th ed. Blackwell, 2004 Rutherford RB. Vascular Surgery. 6 th ed. Saunders, 2006
17	Venous Diseases	Haimovici H. Vascular Surgery. 5th ed. Blackwell, 2004 Rutherford RB. Vascular Surgery. 6 th ed. Saunders, 2006

7. METHODS OF TEACHING

The course involves lectures, bed-side discussions, applications and observation of the operations.

8. ASSESSMENT

The students will be responsible from all the textbooks that are recommended and will be motivated to read further. The participation is vital for this course. The mandatory participation is required to minimum 90% of the course. The students are expected to read the topics of the lectures beforehand to facilitate interactive learning. On the last day there will be a verbal and a multiple-choice written examination that involves all the topics.

9. LANGUAGE

The language of the course is Turkish.

1. IDENTIFICATION OF THE COURSE

MED 579 INTRODUCTION TO OPHTHALMOLOGIC DISEASES AND PRACTICE

2. DESCRIPTION

This course reviews clinical approaches to diseases in ophthalmology. After a brief overview of the course, the course deals with both congenital and developmental ophthalmologic diseases as well as glaucoma, cataracts and ophthalmologic implications of systemic diseases. Also basic practice in ophthalmology and examination methods are overviewed.

3. LEVEL

a. Prerequisites:

None.

b. Objectives:

The first objective of the course is to familiarize students with the basic concepts, nomenclature and practice in ophthalmology. The second objective is to help students to learn how to search for more information in literature.

c. Learning outcomes:

At the end of the course the students should be familiar with ophthalmologic nomenclature and also with diagnosis and treatment of the common diseases the management of which is done by ophthalmologist. They should be able to diagnose such diseases and direct the patients to units where they can be treated.

References:

Textbooks

- Ophthalmology; Eds. Myron Yanoff, Jay S Duker. Mosby, 1999.
- Clinical Ophthalmology; Eds. Jack J. Kanski Butterworth International Editions, 2003.
- Temel Göz Hastalıkları; Editörler: Prof . Dr. Pınar Aydın, Prof. Dr. Yonca Akova. Güne Kitabevi Ltd. ti, Ankara, 2001.
- Retina; Eds. Stephen J. Ryan. Mosby, 1994.
- Cornea; Eds. Kraemer, Mannis, Holland. Mosby, 1997
- Binocular Vision and Ocular Motility. Eds. Gunther K. von Noorden. Mosby, 2002
- Becker-Shaffer's Diagnosis and Therapy of the Glaucomas. Eds. Stamper, Lieberman, Drake. Mosby, 1999
- Orbit, Eyelids and Lacrimal System. American Academy of Ophthalmology. Weingest, Liesegang, Grand. Leo (Lifelong Education for Ophthalmologists) 2000.

4. MANDATORY OR OPTIONAL COURSE

This course is a mandatory course.

5. TEACHING STAFF

Yonca Akova, M.D. Professor of Ophthalmologic Diseases

Sibel Oto, M.D. Professor of Ophthalmologic Diseases

Gürsel Yılmaz, M.D. Professor of Ophthalmologic Diseases

Ahmet Akman, M.D. Professor of Ophthalmologic Diseases

Dilek Dursun Altınörs, M.D. Professor of Ophthalmologic Diseases

mren Akkoyun, M.D. Associate Professor of Ophthalmologic Diseases

Sezin Akça Bayar, M.D. Assist. Professor of Ophthalmologic Diseases

6. LENGTH AND PERIOD

This course is a two weeks course which consists of 18 hours. Topics to be covered are as follows:

Lecture 1	Introduction to Ophthalmology and Ophthalmic Examination	1,2,3
Lecture 2	Ophthalmic Diseases and Refractive Disorders	1,2,3
Lecture 3	Optic Nerve Disorders and Visual Pathways	2,3
Lecture 4	Glaucoma	7
Lecture 5	Acute Red Eye, Diseases of Conjunctiva and Crystalline Lens	2,5
Lecture 6	Corneal Diseases and Keratoplasty	5
Lecture 7	Uveitis and Behçet's Disease	1,2,3
Lecture 8	Retinal Diseases	4
Lecture 9	Ocular Trauma and Emergency	1,2,3
Lecture 10	Orbita and Lacrimal System	8
Lecture 11	Ocular Motility Problems and Amblyopia	6

7. TEACHING AND LEARNING METHODS

The course will consist of lectures, practice hours and class discussions.

8. ASSESSMENT

Students will be responsible from all lectures. Participation to lectures and practice hours are vital components of this course. Students are expected to attend classes and examination rooms regularly. At least 90 % attendance is required. Students are expected to read the assigned material in advance to be ready to participate to class discussions.

There will be a final exam. The final exam will cover all topics.

9. LANGUAGE:

The language of the course is Turkish.

1. IDENTIFICATION OF THE COURSE

MED 580 OBSTETRICS AND GYNECOLOGY

2. DESCRIPTION

This course will be included a comprehensive program composed of theoretical and practical education, to emphasizes the principles of obstetrics and gynecology (OB/GYN). Apart from the basic principles of OB-GYN, advanced management options in this era will be also covered. At the beginning of the course, a brief summary of the entire course schedule and the topics about OB/GYN will be given to the students to make them familiar with the course. The course will be constituted from theoretical lectures performed in class rooms and practical lectures performed besides the patients (bedside). Starting from the basic points such as normal physiology, anatomy of female reproductive system; benign disorders of the vagina, cervix, uterus and ovaries will also be covered while course progress. After this basic, essential information, the malignant diseases of female reproductive organs mentioned above will be discussed. Beside the normal and pathological situation of the female genital tract, the normal and abnormal deliveries will also be included within the course because the medical students assumed to be a primary health care provider for women. The all students are suggested to attend and assist the normal delivery.

The history taking, the full examination of the patient including the pelvic examination, thinking differential diagnosis, reaching a diagnosis, and discussion about the treatment are included in the practical education.

3. LEVEL

- a. Prerequisites:** None.
- b. Objectives:** The main goal of this course is preparing medical students for the modern practice of Obstetrics and Gynecology. Medical students completing this course are expected to manage all of the diseases and physiologic issues related with OB/GYN (The diagnoses, treatment or referring etc.)
- c. Learning outcomes:** At the end of the course the students should be familiar with obstetrics and gynecological nomenclature and also with diagnosis and treatment of the common diseases the management. They should be able to diagnose such diseases and direct the patients to units where they can be treated

References:

Textbooks

- Jonathan S. Berek. (2003) Novak's Gynecology. 13th edition, Lippincott, Williams & Wilkins;
- Nicholas C. Lambrou (2003) The Johns Hopkins Manual of Obstetrics and Gynecology, Lippincott Williams & Wilkins Publishers
- Kısınisci H. (1996) Kadın Hastalıkları ve Doğum Bilgisi, Gunes Kitapevi,
- Steven G. Gabbe, (2003) Obstetrics: Normal and Problem Pregnancies, 4th edition Churchill Livingstone.
- Cunningham, F. Gary, et al. (2001) Williams Obstetrics. 21st ed. New York: McGraw-Hill.
- Scott, James R., et al. (1999) Danforth's Obstetrics and Gynecology. 8th ed. Philadelphia: Lippincott, Williams & Wilkins.

- Speroff, Leon. (1999) Clinical Gynecologic Endocrinology and Infertility. 6th ed. Philadelphia: Lippincott Williams & Wilkins.
- Quilligan, Edward J., and Zuspan, Frederick P. (2000) Current Therapy in Obstetrics and Gynecology. 5th ed. Philadelphia: Saunders.
- Hacker/Moore . (1998) Essentials of Obstetrics and Gynecology, 3rd edition, W.B. Saunders.
- Creasy, Robert K., and Resnik, Robert. (1999) Maternal-Fetal Medicine: Principles and Practice. 4th ed. Philadelphia: Saunders.
- Gerald G. Briggs , Freeman, Sumner J. Yaffe, (2002) Drugs in Pregnancy and Lactation: A Reference Guide to Fetal and Neonatal Risk, Lippincott Williams & Wilkins.

Articles

- Stuart GS, Castano PM.. Sexually transmitted infections and contraceptives: selective issues. Obstet Gynecol Clin North Am. 2003 Dec;30(4):795-808.
- Guzick DS. Polycystic ovary syndrome, Obstet Gynecol. 2004 Jan;103(1):181-93.
- Winkel CA.. Evaluation and management of women with endometriosis. Obstet Gynecol. 2003 Aug;102(2):397-408.
- Sibai BM. Diagnosis and management of gestational hypertension and preeclampsia. Obstet Gynecol. 2003 Jul;102(1):181-92.
- ACOG Committee on Practice Bulletins. American College of Obstetricians and Gynecologist. ACOG Practice Bulletin. Clinical management guidelines for obstetrician-gynecologist. Number 43, May 2003. Management of preterm labor. Obstet Gynecol. 2003 May;101(5 Pt 1):1039-47.
- Gass M.. Impact of WHI conclusions and ACOG guidelines on clinical practice. Int J Fertil Womens Med. 2003 May-Jun;48(3):106-10; discussion 137-8.
- American College of Obstetricians and Gynecologists Committee on Practice Bulletins-- Obstetrics... ACOG Practice Bulletin. Clinical Management Guidelines for Obstetrician-Gynecologists. Prenatal diagnosis of fetal chromosomal abnormalities. Obstet Gynecol. 2001 May;97(5 Pt 1):suppl 1-12.
- American College of Obstetricians and Gynecologists Committee on Practice Bulletins-- Obstetrics... ACOG committee opinion. Breast-ovarian cancer screening. Number 239, August 2000. American College of Obstetricians and Gynecologists. Committee on genetics. Int J Gynaecol Obstet. 2001 Dec;75(3):339-40.

Supplementary Reading List

- DiSaia, (1997) Clinical Gynecologic Oncology, 5th edition, CV Mosby Co.
- Beckmann, (1998) Obstetrics & Gynecology for Medical Students, 3rd edition, Williams & Wilkins.

- Lobo, Rogerio A. (1999) Treatment of the Postmenopausal Woman: Basic and Clinical Aspects. 2nd ed. Philadelphia: Lippincott Williams & Wilkins.

4. MANDATORY OR OPTIONAL COURSE

The attendance to this course is a mandatory.

4. TEACHING STAFF

Ali Haberal, MD. Professor of Obstetrics and Gynecology
 Esra Kuscu, MD. Professor of Obstetrics and Gynecology
 Hulusi Bulent Zeyneloglu, MD. Professor of Obstetrics and Gynecology
 Filiz Yanik, MD. Professor of Obstetrics and Gynecology
 Gö en Önalın, MD. Professor of Obstetrics and Gynecology
 Polat Dursun, MD. Professor of Obstetrics and Gynecology
 Haydar Velidedeo lu, MD. Assoc. Professor of Obstetrics and Gynecology
 Ayla Üçkuyu, MD. Assoc. Professor of Obstetrics and Gynecology
 Mesut Özsoy, MD. Assoc. Professor of Obstetrics and Gynecology

6. LENGTH AND PERIOD

This course consists of topics mentioned below and the length of the course is 7 weeks. Topics to be covered are as follows:

Week 1	The anatomy of female genital system; The history taking in Gynecology; The regulation of the menstrual cycle, The prenatal care; Prenatal infections; Screening in gynecologic oncology; Emergencies in gynecology; The diagnosis and examination of the pregnancy; The physiological changes in normal pregnancy; The cytology of the genital system; Ethics in Gynecology	Novak's, pp. 21-33;71-122;3-21, William's pp. 3-15; 63-201; Kishnisci H pp.13-54
Week 2	The cancer and pregnancy; The premalignant diseases of the cervix, vulva and vagina; The family planning; Normal delivery; Malignant disease of the cervix; Hypertension in pregnancy; Preterm Labor; PPRM	<i>Speroff, pp. 159-201, William's pp 249-423; 423-483; Gabbe pp. 345-389,</i>
Week 3	Benign disease of the ovary; Malign disease of the ovary; The methods and treatment of infertility; The recurrent abortions; Presentations anomalies; Breech delivery; The benign diseases of uterus; Myoma Uterine; Malign diseases of the uterus; Obstetric emergencies; The diseases related with general surgery in pregnancy; Sexual abuse; the sexual dysfunctions	Speroff, pp. 201-247; 643-725; 831-1013, Novak's, pp. 331-399; 47-487, William's pp 765-811, The Johns Hopkins pp. 245-310

Week 4	Germ cell ovarian tumors; Stromal and metastatic ovarian tumors; Amenorrhea; Hyperandrogenism; Dystocia; Third trimester bleedings; Benign diseases of the vagina; The malignant diseases of the vagina; Fetoplacental Unite; The problems of early pregnancy; Carcinogenesis and genital tumors; Isoimmunization	Speroff, pp. 8-35; 453-467; Novak's, pp. 915-963; 331-399, Danforth's pp. 134-189
Week 5	The benign diseased of the vulva; The malign diseases of the vulva; Dysmenorrhea; pelvic pain, endometriosis; puberty, adolescence gynecology; fetal asphyxia; IUGR; IU fetal assessment; Pelvic inflammatory disease; Sexually transmitted disease; Diabetes and pregnancy; Operative delivery; Labor traumas	Speroff, pp 120-340 Novak's, pp 100-210 William's pp 98-220
Week 6	Pelvic relaxation; Stress Incontinence; Menopauses- Osteoporosis; The physiology and disease of the puerperium; Multiple pregnancy; Abnormal uterine bleeding; Gestational trophoblastic disease; Prenatal diagnosis; Pre-post operative care; Drugs in pregnancy and lactation, teratology; Medical diseases in pregnancy;	The Johns Hopkins pp 240-340 Speroff, pp 560-630 Novak's, pp 35-130
Week 7	Cardiac diseases in pregnancy; Free studies and discussion of the patients	William's pp 430-500

7. TEACHING AND LEARNING METHODS

The course consists of class lectures, bedside discussions, and reading assignments.

8. ASSESSMENT

Students will be responsible from all textbooks and articles. However, some supplementary books, which are listed above, are also suggested. Students are encouraged to make extra readings. Class participation is a vital component of this course. Students are expected to attend classes regularly. At least 80 % attendance is required. Students are expected to read the assigned material in advance to be ready to participate to class and practical discussions. Each student will be evaluated by his/her performance during class and bedside discussions, and a committee examination composed of oral and written section at the end of the course. The component of the written examination and oral examination are 80 and 20 points. For successfulness, the total point must be 60 point or higher.

9. LANGUAGE:

The language of the course is Turkish.

1. IDENTIFICATION OF THE COURSE

MED 582 OTOLARYNGOLOGY HEAD AND NECK SURGERY

2. DESCRIPTION

This course reviews the basic information on functions, diseases, trauma, malformations and other disorders in childhood and in adults; of the ear, temporal bone and lateral skull base, nose, paranasal sinuses and anterior skull base, oral cavity, pharynx, larynx, trachea, oesophagus, head, neck, thyroid, salivary and lacrimal glands and adjacent structures. The ENT examination techniques and diagnostic tests are taught during clinical application, and the surgical procedures are exhibited in three weeks period.

3. LEVEL

a. **Prerequisites:** None.

b. **Objectives:** The objective of the course is to teach the students the basic knowledge of anatomy and physiology of the structures of otolaryngology head and neck region, and aetiology, symptomatology, diagnosis and treatments of the pathologies of this region as well.

c. **Learning Outcomes:** The students should learn the basic concepts of otolaryngology head and neck surgery that they can use during their professional life as General Practitioners.

References:

Textbooks

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- Paparella MM, Shumrick DA, Gluckmann JL, Meyerhoff WL (1991) *Otolaryngology*, WB Saunders, Philadelphia.
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- Lore JM (1988) *Atlas of Head and Neck Surgery*, WB Saunders Comp, Philadelphia.

Articles

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- ñ McWhorter A.J.; Tracheotomy: timing and techniques. *Curr Opin Otolaryngol* 2003;11:473-479.
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- ñ [Rice DH](#). Chronic inflammatory disorders of the salivary glands. *Otolaryngol Clin North Am*. 1999;32:813-8.
- ñ [Westra WH](#). The surgical pathology of salivary gland neoplasms. *Otolaryngol Clin North Am*. 1999;32:919-43.
- ñ [Robbins KT](#). Classification of neck dissection: current concepts and future considerations. *Otolaryngol Clin North Am*. 1998;31:639-55.
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- Ñ [Anon JB, Jacobs MR, Poole MD, Ambrose PG, Benninger MS, Hadley JA, Craig WA; Sinus And Allergy Health Partnership.](#) Antimicrobial treatment guidelines for acute bacterial rhinosinusitis. *Otolaryngol Head Neck Surg.* 2004 Jan;130(1 Suppl):1-45.
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4. MANDATORY OR OPTIONAL COURSE

This course is a mandatory course

5. TEACHING STAFF

Levent N. Özlüo lu, M.D. Professor of Otolaryngology Head and Neck Surgery

Erdinç Aydın, M.D. Professor of Otolaryngology Head and Neck Surgery

smail Yılmaz, M.D. Professor of Otolaryngology Head and Neck Surgery

Selim S. Erbek, M.D. Associate Professor of Otolaryngology Head and Neck Surgery

Hatice Seyra Erbek, M.D. Associate Professor of Otolaryngology Head and Neck Surgery

Fuat Büyüklü, M.D. Associate Professor of Otolaryngology Head and Neck Surgery

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Cüneyt Yılmaz, M.D. Associate Professor of Otolaryngology Head and Neck Surgery

Can Alper Ça ıcı, M.D. Associate Professor of Otolaryngology Head and Neck Surgery

Alper Erkan, M.D. Associate Professor of Otolaryngology Head and Neck Surgery

Fatma Çaylaklı, M.D. Associate Professor of Otolaryngology Head and Neck Surgery

Fulya Özer, M.D. Assistant Professor of Otolaryngology Head and Neck Surgery

Evren Hızal, M.D. Assistant Professor of Otolaryngology Head and Neck Surgery

Cem Özer, Instructor of Otolaryngology Head and Neck Surgery

Seda Babakurban, Instructor of Otolaryngology Head and Neck Surgery

Volkan Akdoğan, Instructor of Otolaryngology Head and Neck Surgery

6. LENGTH AND PERIOD

This is a three-week course. The topics to be covered as follows.

Week 1	Introduction to otolaryngology, practical approach to ENT examination, hearing and balance tests. Anatomy and physiology review, diseases of the external auditory canal, rhinitis, sinusitis, otitis media and its complications, obstructive sleep apnea, and oral cavity diseases. Daily surgical performances and routine inpatient and outpatient applications.
Week 2	Inflammatory diseases of the larynx, gastro-esophageal reflux, otosclerosis and tinnitus, epistaxis, salivary gland diseases, facial nerve, diseases of the pharynx, nasal obstruction, maxillofacial trauma. Daily surgical performances and routine inpatient and outpatient applications.
Week 3	Neck masses, phoniatry, vocal fold paralysis, Meniere's disease, sensorineural hearing loss and ototoxicity. Non-meniére vertiginous diseases, benign positional paroxysmal vertigo, nasal obstructions, upper airway obstructions and foreign bodies and tracheostomy. Daily surgical performances and routine inpatient and outpatient applications.

7. TEACHING AND LEARNING METHODS

The course will consist of lectures, clinical diagnostic approaches and ENT examinations, routine applications in ENT and surgical performances as observer.

8. ASSESSMENT

Students will be responsible from all textbooks and handout notes. Students are encouraged to make extra readings. Students are expected to attend classes regularly. Each student will be evaluated according to his/her performance during daily educative applications.

There will be a final exam. The impact of instrumentation and manipulation during ENT head and neck examination will be counted as 10 % of the grade, oral exam will be counted as 40 %, and the final exam will be counted as 50 %. The final exam will cover all topics.

9. LANGUAGE:

The language of the course is Turkish.

1. IDENTIFICATION OF THE COURSE:

MED 585 NEUROSURGERY

2. DESCRIPTION

The course deals with congenital diseases of the central nervous system , neurosurgical trauma, surgical cerebrovascular diseases, cranial and spinal neoplasms and peripheral nerve trauma and entrapment syndromes. The lessons will cover not only the current concepts in neurosurgery but also the experiences of the teaching staff.

3. LEVEL

- a. Prerequisites:** The student must finish Phase IV
- b. Objectives:** The first objective of the course is to familiarize students with the basic concepts and nomenclature in neurosurgery. The second objective is to convey the basic diagnostic and treatment principles of the diseases in the field of neurosurgery.
- c. Learning outcomes:** At the end of the course the students should be familiar with neurosurgical nomenclature and also with diagnosis and treatment of the common diseases the management of which is done by neurosurgeons.They should be able to diagnose such diseases and direct the patients to units where they can be treated.

References:

TEXT BOOKS

- Mark S. Greenberg. Handbook of Neurosurgery. fifth Edition, Thieme, 2001
- Principles of Neurosurgery , Rengachary. SS, Ellenbogen RG (eds) Second edition, Elsevier Mosby,Edinburgh, 2005
- Atlas of Neurosurgical Techniques, Spine and Peripheral Nerves, Fessler RG, Sekhar L (eds), Thieme Medical Publishers Inc., NewYork, 2006
- Vaccaro AR. Principles and Practice of Spine Surgery. Mosby, 2003
- Youmans. Neurological Surgery, Winn HR (ed) Fifth edition. W.B. Saunders, Pennsylvania 2004
- Temel Nöro irürji,Türk Nöro irürji Derne i Yayınları, Cilt I ve II, Ankara, 2005

4. THE STATUS of the COURSE

This course is mandatory

5. TEACHING STAFF of the COURSE

Nur Altınörs, MD Professor of Neurosurgery and Chairman

Hakan Caner, MD, Professor of Neurosurgery

Tarkan Çalı aneller, MD, Associate Professor of Neurosurgery

Melih Çekinmez, MD, Assistant Professor of Neurosurgery

Do a Gürkanlar, MD, Assistant Professor of Neurosurgery

Kadir Tufan, MD, Assistant Professor of Neurosurgery

Cem Yılmaz, MD, Associate Professor of Neurosurgery

Salih Gül en, MD, Assistant Professor of Neurosurgery

Özgür Özdemir, MD, Assistant Professor of Neurosurgery

6. LENGTH AND PERIOD- It is a two weeks programme.

7. TEACHING AND LEARNING METHODS

The course consists of lectures, patient wards, case discussions, out patient examinations, practical applications and observation of surgical procedures.

The lectures are:

1. Neurosurgical nomenclature and basic approaches
2. Craniocerebral trauma
3. Intracranial tumors
4. Brain death
5. Spinal tumors
6. Intracranial infections
7. Congenital disease of the central nervous system
8. Intracranial surgical vascular diseases
9. Cervical spinal degenerative diseases
10. Thoraco-lumbar spinal degenerative diseases
11. Spondylolysis and surgical management
12. Subarachnoid bleeding
13. Spinal trauma
14. Increased Intracranial Pressure and herniation syndromes
15. Hydrocephalus
16. Neurocutaneous diseases
17. Peripheral nerve traumas and entrapment syndromes
18. Functional Neurosurgery

8. ASSESSMENT METHODS and GRADING of the COURSE

There is an oral and a 25 multiple choice question test at the end of two weeks.

The average of the points received on both examinations is the final score of the student.

9. LANGUAGE:

Turkish.

1. IDENTIFICATION OF THE COURSE

MED 587- INTRODUCTION TO ORTHOPAEDICS AND TRAUMATOLOGY

2. DESCRIPTION

This course reviews basic subjects in orthopaedics and traumatology. After a brief overview of the course, the course deals with both congenital and developmental orthopaedic diseases as well as fractures and orthopaedic implications of systemic diseases. The subjects are introduction to orthopaedics and traumatology.

3. LEVEL

a. Prerequisites: None.

b. Objectives: The first objective of the course is to familiarize students with the basic concepts and nomenclature in orthopedics and traumatology. The second objective is to help students to learn how to search for more information in literature.

c. Learning outcomes: At the end of the course the students should be familiar with orthopedic nomenclature and also with diagnosis and treatment of the common diseases the management of which is done by orthopedics. They should be able to diagnose such diseases and direct the patients to units where they can be treated.

References:

Textbooks

- Rockwood and Green's Fractures in Adults; Eds. Bucholz R.W., Heckman J.D., Fifth Edition, Lippincott Williams & Wilkins, 2001
- Rockwood and Wilkin's Fractures in Children; Eds. Beaty J.H, Kasser J.R., Fifth Edition, Lippincott Williams & Wilkins, 2001
- Campbell's Operative Orthopaedics; Ed. Canale S.T., Tenth Edition, Mosby, 2003.
- Tachdjians's Pediatric Orthopaedics; Ed. Herring J.A, Third Edition, W.B.Saunders Company, 2002.

4. MANDATORY OR OPTIONAL COURSE

This course is a mandatory course.

5. TEACHING STAFF

smail Cengiz Tuncay, M.D. Prof.

Hüseyin Demirörs, M.D. Prof.

lhami Kuru, M.D. Prof.

Rahmican Akgün, MD. Assoc. Prof .

Orçun ahin, M.D. Assist. Prof.

Fevzi Özgür, M.D. Assist. Prof.

6. LENGTH AND PERIOD

This course is a three weeks course which consists of 16 hours. Topics to be covered are as follows:

Lecture 1	Teratological and Developmental Hip Dysplasia; Etiology, Diagnosis, Treatment Strategies
Lecture 2	Congenital foot deformities; Postural foot deformities, Clubfoot; Etiology, Diagnosis, Treatments and Differential diagnosis, Associated diseases
Lecture 3	Approach to Trauma patients; Basic aspects of first aid, to do and not to does, basic life support systems, approach to open and closed fractures
Lecture 4	Tendon, muscle and ligament injuries; Diagnosis and Treatment, giving more emphasis to most seen injuries
Lecture 5	Osteomyelitis and Septic Arthritis; Etiology, Pathology, Diagnosis, Treatment protocols, Complications
Lecture 6.	Avascular necrosis of bone
Lecture 7	Arthrodesis and Amputations; Indications, Types, Advantages and Disadvantages, Rehabilitations
Lecture 8	Physiology of articular cartilage and treatment options in cartilage lesions; Basic aspects of cartilage tissue as well as treatment options
Lecture 9	Fracture healing and Treatment Options
Lecture 10	Orthopaedic Treatment in Osteoarthritis and Romatoid Arthritis;
Lecture 11	Bone Dysplasias; Congenital Bone Dysplasias giving more emphasis to achondroplasia, hypochondroplasia, pseudoachondroplasia, spondyloepiphyseal dysplasia and multiple epiphyseal dysplasia.
Lecture 12	Congenital Deformities; nomenclature of congenital deformities, syndactily, polydactily, Torticollis, Sprengels deformities
Lecture 13	Approach to musculoskeletal tumors; Biopsy techniques, staging, diagnosis and surgical options
Lecture 14	Bone metabolism and disorders; Osteoporosis, Rickets, Pagets, Renal Osteodystrophy
Lecture 15	Orthopaedic approach and treatment in neuromuscular diseases

Lecture 16	Hand injuries; Open- Closed Fractures, Tendon injuries, Amputations and treatment options
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7. TEACHING AND LEARNING METHODS

The course will consist of lectures and class discussions.

8. ASSESSMENT

Students will be responsible from all lectures. Class participation is a vital component of this course. Students are expected to attend classes regularly. At least 90 % attendance is required. Students are expected to read the assigned material in advance to be ready to participate to class discussions.

There will be a final exam. The final exam will cover all topics.

9. LANGUAGE:

The language of the course is Turkish.

1. IDENTIFICATION OF THE COURSE

MED 592 UROLOGY

2. DESCRIPTION

This course will include a comprehensive program that emphasizes the principles of urology. Apart from the basic principles of urology, advanced management options in this era will be also covered. At the beginning of the course, a brief summary of the entire course schedule and the topics about urology will be given to the students to make them familiar with the course. The course will include lectures, seminars and clinical applications and observations (such as urologic physical examination, urethral catheterization, extracorporeal shockwave lithotripsy, urodynamic tests, etc)

3. LEVEL

- a. **Prerequisites:** None.
- b. **Objectives:** Objective of the course is to review and familiarize students with urology practice and to teach students how to approach to a patient with an urologic disease, perform specific examinations, apply simple urologic interventions such as urethral catheterization and observe specific urologic tests and surgical interventions. Besides, each student will present a seminar on urologic diseases.
- c. **Learning outcomes:** At the end of the course the students should be familiar with urological nomenclature and also with diagnosis and treatment of the common diseases the management of which is done by urologists. They should be able to diagnose such diseases and direct the patients to units where they can be treated.

References:

Textbooks

- Campbell's Urology
- Contemporary Diagnosis and Management of Male Erectile Dysfunction, Tom F. Lue, First edition, Pennsylvania, Handbooks in Health Care Co, 1999.
- Smith's General Urology (Tanagho EA, McAninch JW, ed). Sixteenth edition. New York, Lange Medical Books/McGraw Hill, 2004
- Temel Üroloji (Anafarta K, Gö ü O, Bedük Y, Arıkan N, ed). Ankara, Güne Kitabevi, 1998.
- Üroloji (Özyurt M). Bursa, V PA A. ., 2000.
- AUA Update series, 1999
- AUA Update series, 1995

4. MANDATORY OR OPTIONAL COURSE

This is a mandatory course

5. TEACHING STAFF

Hakan Özkarde , M.D., Prof

Levent Pe kircio lu, M.D., Prof

M. İteri Tekin, M.D., Prof

Y. Cem Aygün, M.D., Prof

Bülent Öztürk, M.D., Prof

Yavuz Akman, M.D., Assoc.Prof

Ayhan Dirim, M.D., Assoc.Prof

Murat Gönen , M.D., Assoc.Prof

Tahsin Turunç, M.D., Assoc.Prof

Murat Ko an , M.D., Assoc.Prof

A. brahim O uzülgen, M.D., Assist.Prof

Re it Gönen, M.D., Assist.Prof

6. LENGTH AND PERIOD

This course is a two weeks course consisting lectures. Topics to be covered are as follows:

1	Definitions and terminology in Urology	<p>Smith's General Urology (Tanagho EA, McAninch JW, ed). Sixteenth edition. New York, Lange Medical Books/McGraw Hill, 2004</p> <p>Campbell's Urology</p> <p>Temel Üroloji (Anafarta K, Gö ü O, Bedük Y, Arıkan N, ed). Ankara, Güne Kitabevi, 1998.</p>
2	Benign prostatic hyperplasia	<p>Smith's General Urology (Tanagho EA, McAninch JW, ed). Sixteenth edition. New York, Lange Medical Books/McGraw Hill, 2004</p> <p>Campbell's Urology</p> <p>Temel Üroloji (Anafarta K, Gö ü O, Bedük Y, Arıkan N, ed). Ankara, Güne Kitabevi, 1998.</p> <p>Üroloji (Özyurt M). Bursa, V PA A. ., 2000.</p>
3	Lower urinary system dysfunction and urinary incontinence	<p>Smith's General Urology (Tanagho EA, McAninch JW, ed). Sixteenth edition. New York, Lange Medical Books/McGraw Hill, 2004</p> <p>Campbell's Urology</p>
4	Urologic trauma	<p>Smith's General Urology (Tanagho EA, McAninch JW, ed). Sixteenth edition. New York, Lange Medical Books/McGraw Hill, 2004</p> <p>Campbell's Urology</p>
5	Vesicoureteral reflux	<p>Smith's General Urology (Tanagho EA, McAninch JW, ed). Sixteenth edition. New York, Lange Medical Books/McGraw Hill, 2004</p> <p>Campbell's Urology</p>
6	Scrotal mass and acute scrotum	<p>Smith's General Urology (Tanagho EA, McAninch JW, ed). Sixteenth edition. New York, Lange Medical Books/McGraw Hill, 2004</p> <p>Campbell's Urology</p>
7	Sexual dysfunction in male and female	<p>Smith's General Urology (Tanagho EA, McAninch</p>

		<p>JW, ed). Sixteenth edition. New York, Lange Medical Books/McGraw Hill, 2004</p> <p>European Association of Urology Guidelines, 2003</p> <p>Campbell's Urology</p> <p><i>Contemporaray Diagnosis and Management of Male Erectile Dysfunction, Tom F. Lue, First edition, Pennsylvania, Handbooks in Health Care Co, 1999.</i></p>
8	Neoplasms of the testes	<p>Smith's General Urology (Tanagho EA, McAninch JW, ed). Sixteenth edition. New York, Lange Medical Books/McGraw Hill, 2004</p> <p>Campbell's Urology</p> <p>Temel Üroloji (Anafarta K, Gö ü O, Bedük Y, Arıkan N, ed). Ankara, Güne Kitabevi, 1998.</p> <p>Üroloji (Özyurt M). Bursa, V PA A. ., 2000.</p>
9	Neoplasms of the kidney	<p>Smith's General Urology (Tanagho EA, McAninch JW, ed). Sixteenth edition. New York, Lange Medical Books/McGraw Hill, 2004</p> <p>Campbell's Urology</p>
10	Bladder cancer	<p>Smith's General Urology (Tanagho EA, McAninch JW, ed). Sixteenth edition. New York, Lange Medical Books/McGraw Hill, 2004</p> <p>Campbell's Urology</p>
11	Prostate cancer	<p>Smith's General Urology (Tanagho EA, McAninch JW, ed). Sixteenth edition. New York, Lange Medical Books/McGraw Hill, 2004</p> <p>Campbell's Urology</p> <p>AUA Update series, 1999</p>
12	Urinary stone disease, endourology and ESWL	<p>Smith's General Urology (Tanagho EA, McAninch JW, ed). Sixteenth edition. New York, Lange Medical Books/McGraw Hill, 2004</p> <p>Campbell's Urology</p> <p>AUA Update series, 1995</p>

7. TEACHING AND LEARNING METHODS

The course will consist of lectures, bed-side patient visits, practicing urologic examinations and specific tests and observation of urologic operations

8. ASSESSMENT

Students will be responsible from all textbooks. Students are encouraged to make extra readings. Class participation is a vital component of this course. Students are expected to attend classes regularly. At least 90 % attendance is required. Students are expected to read the assigned material in advance to be ready to participate to class discussions. There will be an oral and a written exam that covers all topics at the end of the course.

9. LANGUAGE:

The language of the course is Turkish.

1. IDENTIFICATION OF THE COURSE

MED 542 – PLASTIC, RECONSTRUCTIVE AND AESTHETIC SURGERY

2. DESCRIPTION

This course involves the theoretical lectures of plastic and reconstructive surgery related to congenital anomalies, trauma, repair biology, principles of tissue transplantation, basics of graft and flap surgery, benign and malignant skin tumors, hand surgery, maxillofacial surgery, as well as aesthetic surgery.

3. LEVEL

a. Prerequisite: None except for being successfully promoted from Phase IV.

b. Objectives: The objective of the course is to teach the spectrum of topics included in plastic surgery, repair mechanisms of tissues following injury, surgical treatment of tissue defects and treatment choices of skin tumors.

c. Learning outcomes: At the end of the MED-542 PLASTIC AND RECONSTRUCTIVE SURGERY course, the student is expected to comment about tissue injury and repair biology, basics of tissue transplantation, principles of graft and flaps and benign and malignant skin tumors. They will be able to discuss the surgical treatment of conditions including congenital anomalies, trauma and tumoral lesions.

d. References:

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3. Gürler T. Yara yile mesi. Estetik, Plastik ve Rekonstrüktif Cerrahi . Editör: Ça da A. Ege Üniversitesi Basımevi, 1. baskı, 2003: 17-25.
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5. Alper M. Flepler. Estetik, Plastik ve Rekonstrüktif Cerrahi . Editör: Ça da A. Ege Üniversitesi Basımevi, 1. baskı, 2003:47-62.

4. THE STATUS OF THE COURSE: This course is a mandatory course

5. TEACHING STAFF OF THE COURSE

Hüseyin Borman, MD. (Professor of Plastic, Reconstructive and Aesthetic Surgery)

Nilgün M. Erta , MD. (Assoc. Professor of Plastic, Reconstructive and Aesthetic Surgery)

Y.Doç.Dr. Ça rı Uysal (Assist. Professor of Plastic, Reconstructive and Aesthetic Surgery)

Y.Doç.Dr. Harun Çölo lu (Assist. Professor of Plastic, Reconstructive and Aesthetic Surgery)

6. THE PERIOD AND THE PLAN OF THE COURSE

This course is a one week session. Topics to be covered are as follows:

Lecture 1	Tissue injury and repair biology
Lecture 2-3	Benign and malignant tumors of skin
Lecture 4	Skin grafts and principles of tissue transplantation
Lecture 5	Skin flaps and principles of composite flaps
Lecture 6	Maxillofacial Anomalies and Trauma
Lecture 7	Congenital Hand Anomalies
Lecture 8	Hand Trauma and Surgery
Lecture 9	Aesthetic Surgery
Lecture 10	Pressure Sore

7. TEACHING AND LEARNING METHODS

MED 542-PLASTIC AND RECONSTRUCTIVE SURGERY course will be consisted of lectures, class discussions

8. ASSESSMENT METHODS AND GRADING OF THE COURSE

The examination for the course is held in two parts. The first part includes written multiple choice questions dealing with related topics within the course. The second part is oral examination.

8. LANGUAGE: The language of the course is Turkish.

1.IDENTIFICATION OF THE COURSE

MED 550 FORENSIC MEDICINE COURSE

2. COURSE DESCRIPTION

This course is designed to provide students with information about forensic expertise. In this course the basic concepts related to forensic medicine and important legal concepts related to the Turkish Law in connection with basic legal principles are explained. Forensic science is the necessary techniques and scientific evidence for solving forensic cases and events and is the scientific field that researches criminal physical. Forensic medicine is a medical discipline directed at the function of basic expertise that provides the medical knowledge necessary for solving cases and events with legal and medical characteristics. It has the purpose of serving to ensure justice by explaining events in legal cases and events, determining individuals involved in events, establishing events' causes, results and cause-result relationships. Forensic medicine does not only involve postmortem examination, it also is interested in clinical evaluation of trauma and pathology. Forensic investigators reach conclusions by examining a situation from clinical, pathological and medicolegal perspectives.

The course includes 29 hours of theory and 11 hours of clinical practice for a total of 40 hours. The classes include 9 main subjects classified as introduction and definition, medical law, forensic traumatology, forensic gynecology, forensic pathology and thanatology, social forensic medicine, forensic psychiatry, forensic toxicology, forensic serology and forensic genetics and after subjects are explained theoretically clinical practice is conducted.

Introduction and definition: Forensic medicine is defined and information is given about the forensic cases and events that are frequently seen in medical practice; includes introduction to forensic science and forensic medicine subspecialties, concept of expertise, legal regulations related to forensic medicine in Turkey and introduction of expertise institutions.

Medical Law : In this section the legal regulations related to medical practice and physicians' ethical-legal responsibilities are examined.

Forensic Traumatology : Subjects about what is criminal physical evidence in forensic cases from the aspect of living patients, how is it transported and how it is evaluated and interpreted are explained. Information related to primarily types of wounds and their descriptions from the forensic medical viewpoint, mechanisms of causes of wounds and determination of how wounds occurred, and when wounds occurred is provided; how an injury occurs in an individual, how to determine factors that could be the cause of severity of injury, and trauma and trauma scores from the viewpoint of Turkish Law are discussed. In this section the physical characteristics of injuries that occur from mechanical force, physical factors (cold, heat, electricity, radiation) and measures to differentiate them from each other are discussed. Firearm injuries and findings on the skin for determining distance of firing in firearm injuries are introduced.

Forensic Gynecology : Information is given about forensic cases in pregnancy, childbirth and postpartum periods, definition criteria and related legal processes. Sexual attacks-examination of crime scenes in cases of sexual attacks from the aspect of victim and accused, and forensic examination for collection of evidence is explained.

Forensic Pathology and Thanatology : In this section the concept of death from the aspect of legal concepts and medical processes are examined; information about types of death, concept of death from a forensic medical aspect, respect for the deceased and societal and legal dimensions of death, concept of brain death and transplantation in Turkish Law, determination of death, research of death, examination of crime scene, cause of death, place and time of death, determination of identity of deceased (anthropologic, serologic, molecular practice) are explained; findings that can be established after death in some cases that are frequently encountered in forensic medical practice are discussed.

The legal processes related to determination of death and autopsy are taught and information related to autopsy techniques is given.

Social Forensic Medicine: After explaining forensic medical dimensions of examining physical-sexual-psychological practices with the outlines of violence, concepts of violence against children and exploitation of children, and violence against women from a forensic medical viewpoint, what is evidence that will establish violent practice in the victim and in the aggressor and how to establish this evidence is explained in theory and practice.

The concept of human rights and its history is examined, information about what are human rights abuses, what can be physical evidence of abuse of human rights frequently seen in forensic medical practice, how this evidence is determined and how it can be transported to legal courts is given. The Istanbul protocol is introduced.

Forensic Psychiatry: The concepts of ability to prosecute and legal competency are explained, situations that necessitate the evaluation of an individual's mental status in Turkish Law are explained, necessary criteria for informed consent and valid consent are taught.

Forensic Toxicology: Information on the subjects of forensic toxicology and methods of examination are given; toxic substances that are frequently encountered and macroscopic findings of poisoning in the living and dead are taught.

At the conclusion of the course the writing of all information obtained on reports in the manner that evidence can be used and understood in legal courts is explained with practical examples; students are provided opportunities to see in person clinical forensic medical practice and forensic autopsies. During the theory part of the course the topics are supported with related pictures and 3 autopsy films.

3. Level of the Course

a. Prerequisite of the Course

None.

b. Objectives of The Course

Course objectives: the students will be able to know and practice the consequent rules when practicing the medical profession; will learn the clear principle technical and scientific information and methodology necessary for solving forensic cases; will have gained the information and skills needed to be able to understand, state and be able to offer to legal courts in report form the legal concepts related to cases or events with legal and medical content; and will learn the evaluations and regulations related to medicine and forensic medicine in the Turkish Law.

c. Learning Outcomes:

We believe that this class will be helpful for the students to learn clear principle technical and scientific information and methodology necessary for solving forensic cases; will have gained the information and skills needed to be able to understand, state and be able to offer to legal courts in report form the legal concepts related to cases or events with legal and medical content; and will learn the evaluations and regulations related to medicine and forensic medicine in the Turkish Law.

References:

Textbooks:

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- Polat O.(2000), Adli Tıp [Forensic Medicine], DER Yayınları No: 290.
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4. Status of The Course

MED 550 is a compulsory course.

5. Name of The Teaching Staff of The Course

Dr. Erhan Büken Associate Professor of Forensic Medicine

6. Period and Plan of The Course :

40 hour class content is shown below.

Hours	Topics
1	Forensic Medicine: definition and brief history
2	Expertise
3,4	Physician's legal responsibility and rights
5,6	Injuries related to mechanical force
7	Injuries related to physical factors: freezing, burns, electrical and radiation damage
8,9	Firearm injuries
10	Injuries: practical applications
11	Forensic pathology and Thanatology : Concept of death
12	Corpse examination and discovery
13,14,15	Postmortem changes
16	Determining cause of death, determining time of death
17	Forced deaths, natural deaths
18	Examination of situation scenes: practical applications
19,20	Identification: Forensic anthropology, forensic serology, use of molecular genetic methods in forensic medicine – collecting evidence for the purpose of DNA analysis
21, 22	Asphyxia and asphyxia related forced deaths
23,24	Forensic toxicology
25,26	Social Forensic Medicine: Violence, Child exploitation and neglect, Human rights abuses
27,28	Forensic Gynecology: Sexual attacks, Trauma in pregnancy, Maternal deaths
29 - 34	Forensic autopsy and clinical practice
35- 40	Clinical forensic medicine clinical practice

7. Teaching and Learning Methods of the Course

Course program includes theory classes and clinical practice.

8. Assessment Methods and Grading of the Course

Written examination.

9. The Language of Instruction

Turkish.